AMENDMENTS TO THE CLAIMS

- 1-26. (Cancelled)
- 27. (Currently amended) The phosphor blend of claim [[26]] <u>34</u>, wherein the efficacy is above 340 lm/W.
- 28. (Currently amended) A white light emitting phosphor blend comprising at least three phosphors, wherein the white light emitted by the phosphor blend in response to incident radiation having a peak wavelength between 360 and 420 nm comprises a color temperature between 3000K and 6500K, a CRI above 70 and an efficacy above 200 lm/W;

wherein the efficacy is above 264 lm/W and the color temperature is between 3300K and 4100K for incident radiation having a peak wavelength between 370 and 405 nm; and

The of claim 27, wherein the phosphor blend comprises:

about 55 to about 75 weight percent Sr₂P₂O₇: Eu²⁺, Mn ²⁺ phosphor;

about 11 to about 22 weight percent of at least one of (Ba,Sr,Ca)₂SiO₄:Eu²+

phosphor; and about 13 to about 22 weight percent of at least one of (Sr,Ba,Ca,Mg)₅(PO₄)₃Cl:Eu²⁺ phosphor.

29. (Currently amended) The phosphor blend of claim 28, wherein the phosphor blend comprises:

about 57.5 weight percent Sr₂P₂O₇: Eu²⁺, Mn ²⁺ phosphor;

about 21.5 weight percent (Ba_{0.65},Sr_{0.2},Ca_{0.1}Eu_{0.05})₂SiO₄ phosphor; and about 21 weight percent of the at least one of (Sr,Ba,Ca)₅(PO₄)₃Cl:Eu²⁺

phosphor.

30. (Currently amended) The phosphor blend of claim 28, wherein the phosphor blend comprises:

about 61.4 weight percent Sr₂P₂O₇: Eu²⁺, Mn ²⁺ phosphor; about 19.4 weight percent (Ba_{0.65},Sr_{0.2},Ca_{0.1}Eu_{0.05})₂SiO₄ phosphor; and

ι,

about 19.2 weight percent of the at least one of (Sr,Ba,Ca)₅(PO₄)₃Cl:Eu²+ phosphor.

31. (Currently amended) The phosphor blend of claim 28, wherein the phosphor blend comprises:

about 73.7 weight percent Sr₂P₂O₇: Eu²⁺, Mn ²⁺ phosphor; about 12.1 weight percent (Ba_{0.65},Sr_{0.2},Ca_{0.1}Eu_{0.05})₂SiO₄ phosphor; and about 14.2 weight percent of the at least one of (Sr,Ba,Ca)₅(PO₄)₃Cl:Eu²⁺ phosphor.

- 32. (Currently amended) The phosphor blend of claim [[26]] <u>28</u>, wherein the CRI is above 90.
- 33. (Currently amended) The phosphor blend of claim [[32]] <u>34</u>, further comprising a fourth phosphor comprising 3.5MgO*0.5MgF₂*GeO₂:Mn⁴⁺.
- 34. (Currently amended) A white light emitting phosphor blend comprising at least three phosphors, wherein the white light emitted by the phosphor blend in response to incident radiation having a peak wavelength between 360 and 420 nm comprises a color temperature between 3000K and 6500K, a CRI above 70 and an efficacy above 200 lm/W;

wherein the efficacy is above 264 lm/W and the color temperature is between 3300K and 4100K for incident radiation having a peak wavelength between 370 and 405 nm;

wherein the CRI is above 90; and

The phosphor blend of claim 32, wherein the phosphor blend comprises:

about 11 to about 43 weight percent Sr₂P₂O₇: Eu²⁺, Mn ²⁺ phosphor; about 9 to about 15 weight percent (Ba,Sr,Ca)₂SiO₄:Eu²⁺ phosphor; about 6 to about 14 weight percent of at least one

of(Sr,Ba,Ca,Mg)₅(PO₄)₃Cl:Eu²+ phosphor; and about 30 to about 71 weight percent 3.5MgO*0.5MgF₂*GeO₂:Mn⁴+ phosphor.

35. (Currently amended) The phosphor blend of claim 34, wherein the phosphor blend comprises:

about 12.7 weight percent $Sr_2P_2O_7$: Eu^{2+} , Mn^{2+} phosphor; about 10 weight percent $(Ba_{0.65}, Sr_{0.2}, Ca_{0.1}Eu_{0.05})_2SiO_4$ phosphor; about 7.4 weight percent of the at least one of $(Sr, Ba, Ca, Mg)_5(PO_4)_3Cl:Eu^{2+}$ phosphor; and about 69.9 weight percent 3.5MgO*0.5MgF₂*GeO₂:Mn⁴⁺ phosphor.

36. (Currently amended) The phosphor blend of claim 34, wherein the phosphor blend comprises:

about 17.6 weight percent $Sr_2P_2O_7$: Eu^{2+} , Mn^{2+} phosphor; about 11.8 weight percent $(Ba_{0.65},Sr_{0.2},Ca_{0.1}Eu_{0.05})_2SiO_4$ phosphor; about 9 weight percent of the at least one of $(Sr,Ba,Ca)_5(PO_4)_3Cl:Eu^{2+}$ phosphor; and about 61.6 weight percent 3.5MgO*0.5MgF₂*GeO₂:Mn⁴⁺ phosphor.

37. (Currently amended) The phosphor blend of claim 34, wherein the phosphor blend comprises:

about 41.5 weight percent $Sr_2P_2O_7$: Eu^{2+} , Mn^{2+} phosphor; about 14.2 weight percent $(Ba_{0.65},Sr_{0.2},Ca_{0.1}Eu_{0.05})_2SiO_4$ phosphor; about 12.8 weight percent of the at least one of $(Sr,Ba,Ca)_5(PO_4)_3Cl:Eu^{2+}$ phosphor; and about 31.5 weight percent 3.5MgO*0.5MgF₂*GeO₂:Mn⁴⁺ phosphor.

38-45. (Cancelled)

46. (New) A white light emitting phosphor blend comprising at least three phosphors, wherein the white light emitted by the phosphor blend in response to incident radiation having a peak wavelength between 360 and 420 nm comprises a color temperature between 3000K and 6500K, a CRI above 70 and an efficacy above 200 lm/W; and wherein the phosphor blend comprises:

about 55 to about 75 weight percent Sr₂P₂O₇: Eu²⁺, Mn ²⁺ phosphor;

about 11 to about 22 weight percent of at least one of (Ba,Sr,Ca)₂SiO₄:Eu²+

phosphor; and

about 13 to about 22 weight percent of at least one of

 $(Sr,Ba,Ca,Mg)_5(PO_4)_3Cl:Eu^{2+}$ phosphor.